

## UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG ELECTRIC LOGS FILE ☒ WATER SANDS LOCATION INSPECTED OIL SUB. REPORT/abd.

11-9-83 Operator + well name change from Hiko Bell to AFE Management

DATE FILED 12-2-82

LAND: FEE &amp; PATENTED STATE LEASE NO.

PUBLIC LEASE NO. U-50972

INDIAN

DRILLING APPROVED: 12-6-82

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: 5890' GR

DATE ABANDONED: 2-11-85 Application rescinded

FIELD: ~~WILDCAT~~ 3/86 Undesignated

UNIT:

COUNTY: DUCHESNE

WELL NO. ~~HIKO BELL~~ # 44-6 AFE

API NO. 43-013-30716

LOCATION 660

FT. FROM (W) (S) LINE.

660

FT. FROM (E) (W) LINE.

XX

SE SE

1/4 - 1/4 SEC. 6

TWP.

RGE.

SEC.

OPERATOR

TWP.

RGE.

SEC.

OPERATOR

10S

17E

6

AFE Management, Inc.  
~~HIKO BELL~~

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☒GAS  
WELL ☐

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

Hiko Bell Mining &amp; Oil Company

## 3. ADDRESS OF OPERATOR

P.O. Drawer AB, Vernal, Utah 84078

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

660' FEL &amp; 660' FSL SESE

At proposed prod. zone

Section 6, T10S-R17E, SLM

Duchesne County, Utah

5890 GR.

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

25 miles southwest of Myton, Utah

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

2700'

## 18. DISTANCE FROM PROPOSED LOCATION\*

TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

1300'

## 16. NO. OF ACRES IN LEASE

1746.1

## 19. PROPOSED DEPTH

5700

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

40

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5890 GR.

## 22. APPROX. DATE WORK WILL START\*

March 28, 1983

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	24# new	300	Circ. to surface
7 7/8"	5 1/2"	15.5# new	5700'	440 sx.

Propose to drill a 5700' Green River test with Rotary tools. KCl water will be used with gel to drill a 7 7/8" hole to 5700 feet and set 5 1/2" casing if commercial production is established.

The sands in the lower Green River Formation will be tested for oil and gas.

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 12-6-82

BY: Robert E. CovingtonRECEIVED  
DEC 02 1982

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED

Robert E. CovingtonTITLE Manager of ExplorationDATE Nov. 30, 1982

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_

APPROVAL DATE \_\_\_\_\_

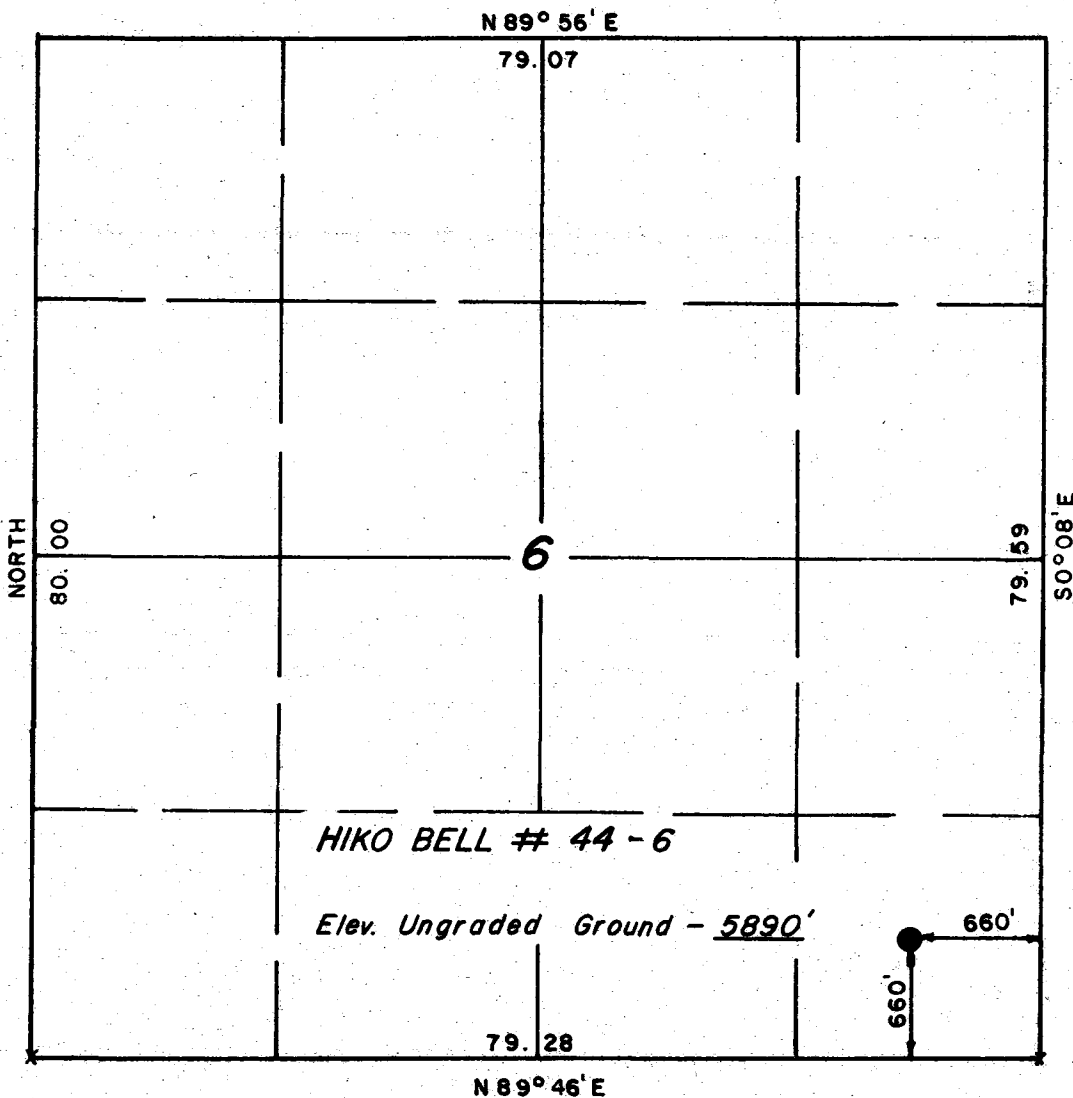
APPROVED BY \_\_\_\_\_

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

*T 10 S, R 17 E, S.L.B. & M.*



X = Section Corners Located

PROJECT

HIKO BELL MINING & OIL CO.

Well location, *HIKO BELL # 44-6*,  
located as shown in the SE 1/4 SE 1/4  
Section 6, T10 S, R17 E, S.L.B. & M.  
Duchesne County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*John J. [Signature]*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO 2454  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11 - 24 - 82
PARTY N.J.M. D.D.	REFERENCES GLO Plat
WEATHER Cloudy & Cold	FILE HIKO BELL

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-50972		
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME DEC 1 1982		
2. NAME OF OPERATOR Hiko Bell Mining & Oil Company			7. UNIT AGREEMENT NAME SALT LAKE CITY, UTAH		
3. ADDRESS OF OPERATOR P.O. Drawer AB, Vernal, Utah 84078			8. FARM OR LEASE NAME White Mule Springs		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 660' FEL & 660' FSL At proposed prod. zone Section 6, T10S-R17E, SLM Duchesne County, Utah 5890 GR.			9. WELL NO. Hiko Bell#44-6		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 25 miles southwest of Myton, Utah			10. FIELD AND POOL, OR WILDCAT Wildcat		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drilg. unit line, if any) 2700'		16. NO. OF ACRES IN LEASE 1746.1	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6, T10S, R17E, SLM		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1300'		19. PROPOSED DEPTH 5700	12. COUNTY OR PARISH Duchesne Co.		
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5890 GR.		13. STATE Utah			22. APPROX. DATE WORK WILL START* March 28, 1983

## PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	9 5/8"	24# new	300	Circ. to surface
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The sands in the lower Green River Formation will be tested for oil and gas.

4. ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED Robert E. Covington TITLE Manager of Exploration DATE Nov. 30, 1982  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
APPROVED BY [Signature] FOR E. W. GUYNN  
CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ TITLE DISTRICT OIL & GAS SUPERVISOR DATE JAN 3 1983

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED  
TO OPERATOR'S COPY

\*See Instructions On Reverse Side

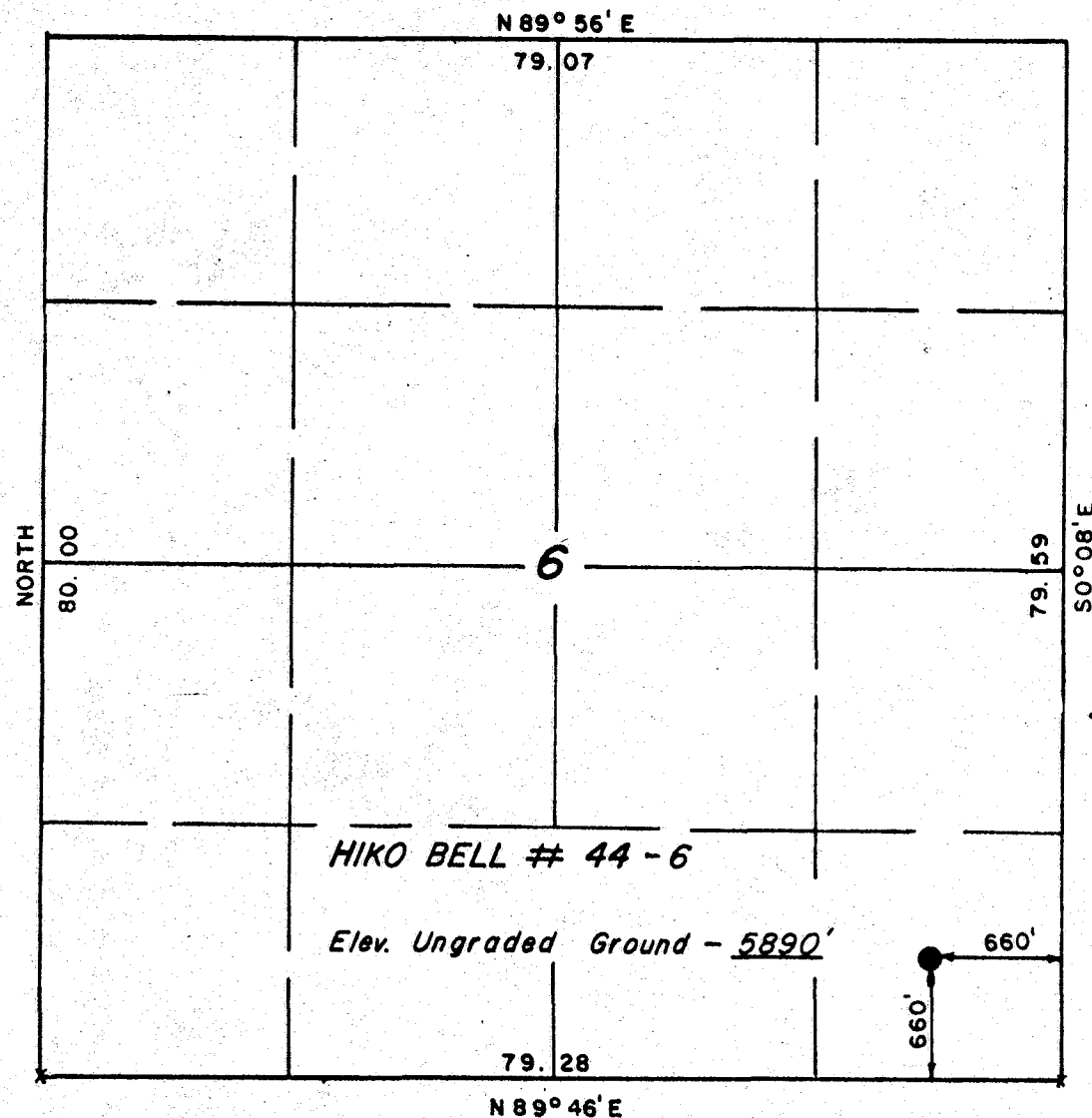
FLARING OR VENTING OF  
GAS IS SUBJECT TO NTL 4-4  
DATED 1/1/80

State of G

*T 10 S, R 17 E, S.L.B. & M.*

PROJECT  
HIKO BELL MINING & OIL CO.

Well location, *HIKO BELL # 44-6*,  
located as shown in the SE 1/4 SE 1/4  
Section 6, T10 S, R17 E, S.L.B. & M.  
Duchesne County, Utah.



X = Section Corners Located



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
BEST OF MY KNOWLEDGE AND BELIEF.

*[Signature]*

REGISTERED LAND SURVEYOR  
REGISTRATION NO 2454  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX Q - 85 SOUTH - 200 EAST  
VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 11 - 24 - 82
PARTY N.J.M. D.D.	REFERENCES GLO Plat
WEATHER Cloudy & Cold	FILE HIKO BELL

Hiko Bell Mining and Oil Company  
Well No. 44-6  
Section 6-10S-17E  
Duchesne County, Utah  
Lease U-50972

Supplemental Stipulations:

1. Traveling off the right-of-way will not be allowed. Width of access roads, both existing and planned, will be 30 feet total disturbed area. Turn-outs will not be required.
2. Burn pits will not be constructed. There will be no burying of garbage or trash at the well site. Refuse will be contained in trash cages and hauled to the nearest sanitary landfill. No trash will be thrown in the reserve pit.
3. A wire mesh or net type of fence, topped with at least one strand of barbed wire, will be used around the reserve pit.
4. Water for this location will be hauled from Pariette Draw in T.8S. R.18E., Section 27.
5. The BLM will be contacted at least 24 hours prior to any rehabilitation activities. The operator may be informed of any additional needed seeding requirements.
6. The top 6-10 inches of topsoil will be stockpiled as addressed in the applicant's 13 point plan.
7. All permanent (onsite for six (6) months duration or longer) structures constructed or installed, including the pumpjack, shall be painted a flat, non-reflective, earth tone color to match Themec 23-08351 Mesa Brown Enduratone or an approved equal. All facilities shall be painted within 6 months of when the production facilities are put in place. Facilities that are required to comply with OSHA (Occupational Safety and Health Act) standards are excluded.
8. Adequate and sufficient electric/radioactive logs will be run to locate and identify the prime oil shale horizons in the Mahogany zone of the the Green River formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the oil shale resource. Surface casing program may require adjustment for protection of fresh water aquifers. (See attached tentative casing and cementing program for the Uinta Basin).

HIKO BELL MINING & OIL COMPANY

WHITE MULE SPRINGS OIL

AND GAS FIELD

44-6

SEC. 6, T10S-R17E, S.L.M

DUCHESNE COUNTY, UTAH

DRILLING PLAN

1. The geologic name of the surface formation is the Tertiary Uinta Formation.
2. Estimated tops of important geologic markers are as follows:

Green River Formation	1064
Wasatch Tongue	4864
Green River Tongue (carbonate marker)	5271
Wasatch Formation	5464
Proposed T.D.	5700

3. Oil or gas may be encountered in the Green River and Wasatch Formations. No other formations are expected to produce oil, gas, water, or other minerals in measurable quantities.

4. <u>Size of Hole</u>	<u>Size of Casing &amp; Wt./ft.</u>	<u>Setting Depth</u>	<u>Quantity of Cement</u>
12 $\frac{1}{2}$ "	9 5/8", 24# new	300'	Circ to Surface
7 7/8"	5 $\frac{1}{2}$ ", 15.5# new	5700'	440 sx.

5. Operator's minimum specifications for pressure control equipment is a 10", 3000 psi hydraulic blowout preventer. Blowout preventer will be tested daily. Refer to Diagram "C".
6. Fresh water base drilling mud will be used for the entire drilling operations, utilizing a dispersed mud system to total depth. Mud weight will be controlled by drilling solids. Barite will be used for weighing materials in the event of abnormal pressures being encountered.
7. Auxiliary equipment is as follows:
  1. Kelly Cocks
  2. Bit Floats
  3. A full opening-quick close drill pipe valve is to be located on the derrick floor at all times.

Drilling Plan, Continued  
Hiko Bell Mining & Oil Company  
White Mule Springs-Hiko Bell Well #44-6  
Duchesne County, Utah

Page Two

8. Commercial shows of oil and gas will be tested. We are anticipating drill stem tests in the Wasatch and Green River Formations. No coring is anticipated.

The logging program is as follows:

1. Mud logging unit, from 300' to T.D.
  2. Dual Induction Laterlog-T.D. to base of surface casing.
  3. BHC-Gamma Ray Sonic w/Caliper, Integrated T.D. to base of surface casing.
  4. Formations Density/Compensated Neutron, Zones of interest.
9. No abnormal pressures or temperatures are anticipated. No potential hazards such as hydrogen sulfide are expected, based upon well experience in the area.
10. The anticipated starting date is, March 28, 1983.

*Robert E. Covington*

Robert E. Covington, Mngr. Explor.  
Hiko Bell Mining & Oil Company  
Vernal, Utah



HIKO BELL MINING & OIL COMPANY

13 Point Surface Use Plan

For

Well Location

White Mule Spring

HIKO BELL #44-6

Located in

Section 6, T10S-R17E, S.L.M.

Duchesne County, Utah

1. EXISTING ROADS

To reach the Hiko Bell Mining & Oil Company Well location White Mule Springs-Hiko Bell #44-6, located in the SE $\frac{1}{4}$ SE $\frac{1}{4}$  of Section 6, T10S-R17E, S1E, SLM, Duchesne County, Utah; proceed Southwesterly out of Hinton, Utah, along U.S. Highway 40 - 1.5 miles to the junction of this Highway and Utah State Highway 53, to the south; proceed Southerly along this Highway 1.1 miles more or less, to the intersection of Utah State Highway 53 and Utah State Highway 216, thence proceed Southeasterly along Utah State Highway 216 - 17.8 miles to the junction of this road and an existing road to the west, proceed along this road 3 miles to the location. The location site is on the north side of the road. The location is approximately 50 feet from the existing road.

The Highways mentioned in the foregoing paragraph are bituminous surfaced roads up to the intersection of Utah State Highway 53 and 216. From which point Utah State Highway is constructed out of existing native materials that are prevalent to the existing area. It is located in the ranges from clay to sandy-clay shale materials, as are the aforementioned dirt oil field service roads and other roads in the vicinity.

There is no anticipated construction on any portion of the above described roads. They will meet the necessary standards required to facilitate an orderly flow of traffic during the drilling phase, completion phase, and production phase, of the well. These roads will be maintained at the standards required by the B.L.M. or other controlling agencies. The dirt roads mentioned above will be upgraded before use.

2. PLANNED ACCESS ROAD

See Topographic Map "B". There will be a limited amount of road building to the location off of the main road. The location is approximately 100 feet off the main road.

3. LOCATION OF EXISTING WELLS

See Topographic Map "B".

There are three existing wells in the vicinity, which were all plugged and abandoned. They are as follows:

Phillips Petroleum Company  
Phillips-Ouray No. A-1  
NW $\frac{1}{4}$ SE $\frac{1}{4}$ , Sec. 31, T9S-R17E, SLM  
Plugged and Abandoned

Mountain Fuel Supply  
Wells Draw No. 1  
NW $\frac{1}{4}$ SE $\frac{1}{4}$ , Section 8, T10S-R17E, SLM  
Plugged and Abandoned

Mountain Fuel Supply  
Wells Draw No. 2  
SE $\frac{1}{4}$ NW $\frac{1}{4}$ , Section 8, T10S-R17E, SLM  
Plugged and Abandoned

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4. LOCATION OF EXISTING AND PROPOSED FACILITIES

There are no Hiko Bell Mining & Oil Company tank batteries, production facilities, oil gathering lines, gas gathering lines, injection lines, or disposal lines within a mile radius of this location. Mountain fuel has a gas line  $\frac{1}{2}$  mile to the west of this location.

In the event that production is established, plans for a flowline from this location to existing lines in the area will be submitted to the proper authorities and the existing area of the location will be utilized for the establishment of the necessary production facilities.

The total area that is needed for the production of this well will be fenced and cattleguards which will be utilized for access to these facilities.

The area will be built if possible, with native materials and if these materials are not available, then the necessary arrangements will be made to get them from private sources.

These facilities will be constructed using bulldozers, graders, and manual crews to construct and place the proposed facilities.

If there is any deviation from the above, all appropriate agencies will be notified.

Rehabilitation of disturbed areas no longer needed for operations after construction is completed will meet the requirements of Item #10.

5. LOCATION OF AND TYPE OF WATER SUPPLY

Water to be used for the drilling and production of this well will be hauled by truck from Pariette Draw, at a point northeast of the well approximately 20 miles. The BLM has set aside an area for drawing water from the stream that is used by most of the operators in the area.

In the event that the above source is not used, other arrangements will be made with the proper authorities for an alternate source.

All regulations and guidelines will be followed and no deviations will be made unless all concerned agencies are notified.

There will be no water well drilled at this location site.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during the construction of the location site and access road.. No additional road gravels or pit lining materials from other sources are anticipated at this time, but if they are required the appropriate actions will be taken to acquire them from private sources.

The native materials that will be used in the construction of this location site and access road will consist of a sandy-clay soil and sandstone and shale material gathered in actual construction of the road and location.

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7. METHODS FOR HANDLING WASTE DISPOSAL

A reserve pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. Non-flammable materials such as cuttings, salts, chemicals, etc., will be buried in the reserve pit and covered with a minimum of four feet of earth materials. Prior to the onset of drilling, the reserve pit will be fenced on three sides. Upon completion of drilling, the fourth side of the reserve pit will be fenced and allowed to dry completely before backfilling and reclamation are attempted. A portable toilet will be supplied for human waste.

A trash basket will be provided for flammable materials. Waste will be hauled by truck to the nearest sanitary landfill.

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time, and none foreseen in the near future.

9. WELL SITE LAYOUT

See attached Location Layout Sheet.

The B.L.M. District Manager shall be notified before any construction begins on the proposed location site and road.

As mentioned in Item #6, the pits will be unlined unless it is determined by the representatives of the agencies involved that the materials are too porous and would cause contamination to the surrounding area; then the pits will be lined with a gel or any other type of material necessary to make it safe and tight.

10. PLANS FOR RESTORATION OF SURFACE

As there is some topsoil on the location site, all topsoil shall be stripped and stockpiled. (See Location Layout Sheet and Item #9). When all drilling and production activities have been completed, the location site and access road will be reshaped to the original contour and stockpiled topsoil spread over the disturbed area. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash baskets will be hauled to the nearest sanitary landfill. The reserve pit will be completely fenced and allowed to dry before covering. When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The Lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned Items #7 and #10.

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11. OTHER INFORMATION

The Topography of the General Area - (See Topographic Map "A").

The area is a basin that lies between the Book Cliff Mountains to the South and the Uinta Mountains to the North. The area is interlaced with numerous canyons and ridges which are extremely steep with numerous ledges formed in sandstone, conglomerates, and shale deposits.

The majority of the washes and streams in the area are non-perennial streams and flow to the east and are tributaries to the Green River.

The soils of the semi-arid area are of the Uinta Formation and Duchesne River Formation (the Fluvial, Sandstone, Mudstone) from the Eocene and Quaternary Epoch (gravel surfaces) and the visible geologic structures consist of light brownish clay (CL) to sandy soils (SM-AL) with poorly graded gravels and shales with outcrops of rock (sandstone, mudstone, conglomerates, and shales).

Due to the low precipitation average, climatic conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations of the Uinta Basin. It consists of, as primary flora, areas of sagebrush, rabbitbrush, some grasses, cacti, and large areas of bare soils devoid of any growth. In the areas that are formed along the edges of perennial streams cottonwoods, willows, tamarack, sagebrush, rabbitbrush, grasses, and cacti can be found.

The fauna of the area is sparse and consists predominantly of mule deer, coyotes, pronghorn antelope, rabbits, and varieties of small ground squirrels and other types of rodents, and various reptiles common to the area.

The birds of the area are raptors, finches, ground sparrow, magpies, crows, and jays.

The area is used by man for the primary purpose of grazing domestic livestock.

The Topography of the Immediate Area (See Topographic Map "E").

White Mule Spring-Hiko Bell # 44-6 location site sits on a sloping hillside south of a non-perennial drainage which drains into the Sheep Wash and Big Wash. Sheep Wash is located 3.5 miles east of the location, and Big Wash is located .5 miles north of the location. Big Wash drains into Sheep Wash and Sheep Wash drains into the Green River to the East.

The geologic formation on the location is the Uinta Formation and consists of light brownish-gray clay (SP-CL) with some sandstone outcrops.

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11. OTHER INFORMATION -cont...

The location is covered with some sagebrush and grasses.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (see Topographic Map B).

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Robert E. Covington  
Manager of Exploration  
Hiko Bell Mining & Oil Company  
P.O. Drawer AB  
Vernal, Utah 84078

801-789-3233

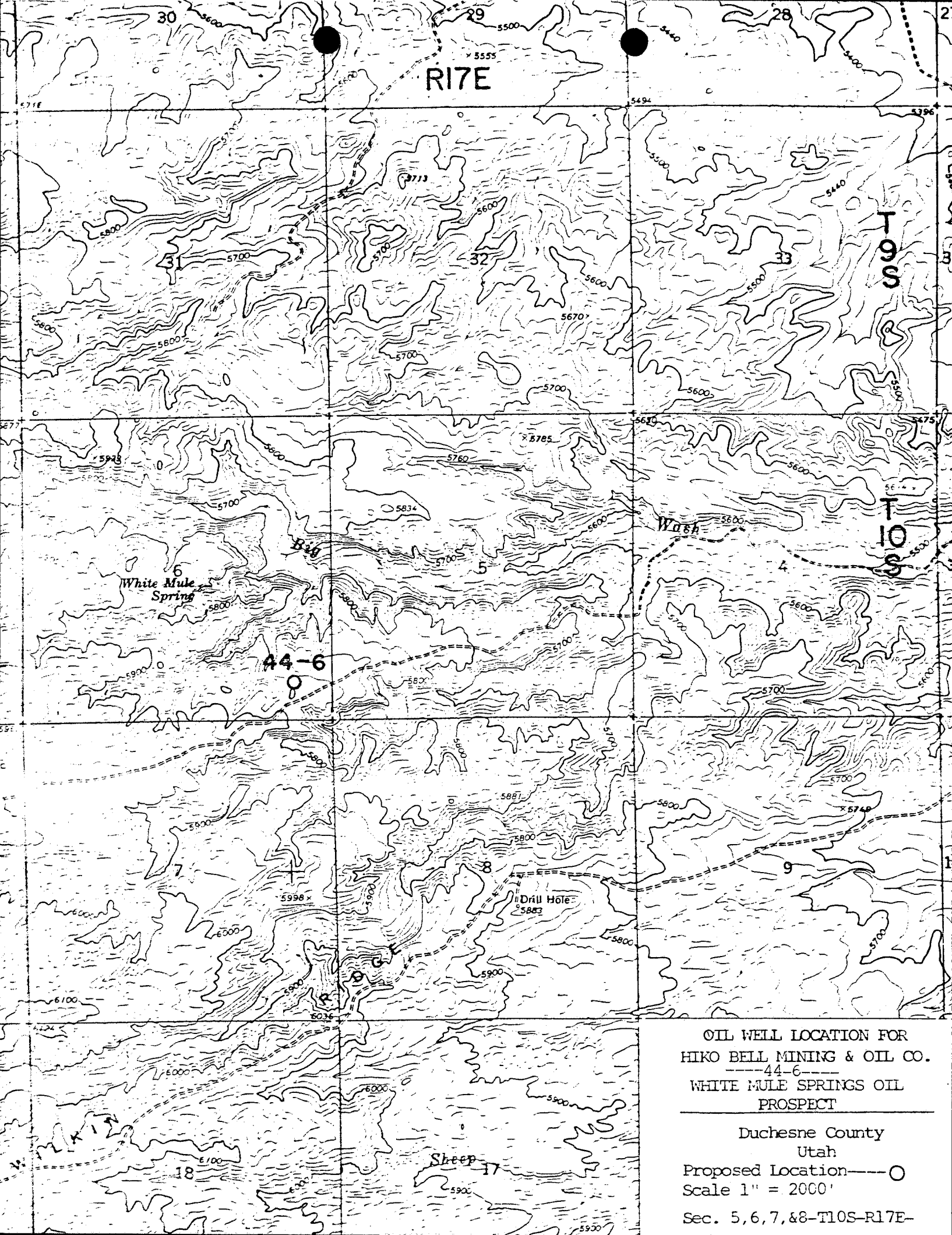
13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision have inspected the proposed drill site and access road route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that work associated with the operation proposed herein will be performed by HIKE BELL MINING & OIL COMPANY and its contractors and subcontractors in conformity with this plan and terms and conditions under which it is approved.

\_\_\_\_\_  
DATE

\_\_\_\_\_  
Robert E. Covington, Mngr. Explor.

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R17E

T9S

T10S

White Mule Spring

44-6

Drill Hole

Sheep

OIL WELL LOCATION FOR  
HIKO BELL MINING & OIL CO.  
44-6  
WHITE MULE SPRINGS OIL  
PROSPECT

Duchesne County  
Utah  
Proposed Location—○  
Scale 1" = 2000'  
Sec. 5,6,7,&8-T10S-R17E-



# United States Department of the Interior

GEOLOGICAL SURVEY  
Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

February 2, 1981

## General Outline for the Protection and Isolation of Ground Water and Oil Shale in the Uinta Basin.

The oil shale occurs with varying thicknesses in most parts of the Uinta Basin and at varying depths. Ground water also occurs at varied depths above and below the Oil Shale. These ground waters have varying degrees of salinity. Nonetheless, drilling for hydrocarbon in the Uinta Basin should provide for the protection of the oil shale and the ground water if either is present.

The protection of the oil shale and the ground water can effectively be carried on through the design of an adequate casing and cementing program for each well drilled in the area.

In the Uinta Basin, water occurs mainly in the Uinta and the Green River formations. As drilling for hydrocarbon gets deeper into the crust of the earth, more ground water might be encountered and will be protected as it is encountered.

This notice's purpose is to attempt to lay the groundwork for a casing program and cementing program that will protect the oil shale and the ground water if present.

These programs are to be considered as guidelines. The specificity of casing depth, amount of cement and the depth of staging collars will be considered on an individual basis after a careful study of the logs of each individual well. Cementing from the bottom up is an economical solution if carefully conducted.

The casing and cementing program presented here as an example, will assume that fresh water was encountered in the upper parts of the Green River, that the oil shale occurs in the middle of the Green River (1000 foot section) and that some ground water is encountered in the lower parts of the Green River.

In this case, three areas will have to be cemented to assure the integrity of the ground water and oil shale: These areas are above the upper fresh water, across the oil shale and below the lower water aquifer. Deep aquifers that do not contain useful water are cemented to prevent water zone influence on production.

The following casing and cementing program will be appropriate for this example:

- A. Surface casing is set at approximately 300 feet and cemented to the surface.



B. The next casing string will be set at approximately 300 feet below the lowest aquifer. Cementing will be done in three stages, using two stage collars and cement baskets or equivalent as described below and on attached sketches:

1. Cement first stage through the casing shoe to fill annulus back to base of lower aquifer.
  2. Place 1st stage collar (with cement basket immediately below) at a selected point at the base of the oil shale. Cement will have to reach top of oil shale.
  3. Place 2nd stage collar (with cement basket immediately below) 50 feet above the top of the Bird's Nest aquifer and cement to at least 300 feet above the stage collar.
- C. The above is an example. Reasonable equivalents that accomplish these same protective measures, (such as cementing the water zones instead of isolating them), depending on the individual cases will be considered for approval.
- D. When the above mentioned well is to be abandoned, inner-casing plugs will have to be placed at the same depth as the above mentioned annulus cement jobs.

The use of cement bond logs will verify the authenticity of the cement job performed.

- E. The Operator of such well should notify U.S.G.S. 48 hours prior to commencement of casing and cementing activity, so a technician could be dispatched to witness the operations to verify compliance with casing and cementing program.

Attached Sketches:

1. Schematic of the required casing and cementing program.
2. Cross section of the Uinta Basin.
3. Schematic of the general ground water protection program.

E. W. Guynn  
District Oil and Gas Supervisor

AMR/kr

PARTIAL CASING & CEMENTING PROGRAM  
FOR WELLS IN THE  
WHITE MULE SPRINGS OIL  
& GAS FIELD  
DUCHESNE CO., UTAH

NOT TO SCALE

UINTA FORMATION

BIRDS NEST AQUIFER  
Horsebench Sandstone

GREEN RIVER

OIL SHALE ZONE

DOUGLAS CREEK  
AQUIFER  
Limestone & Sandstone

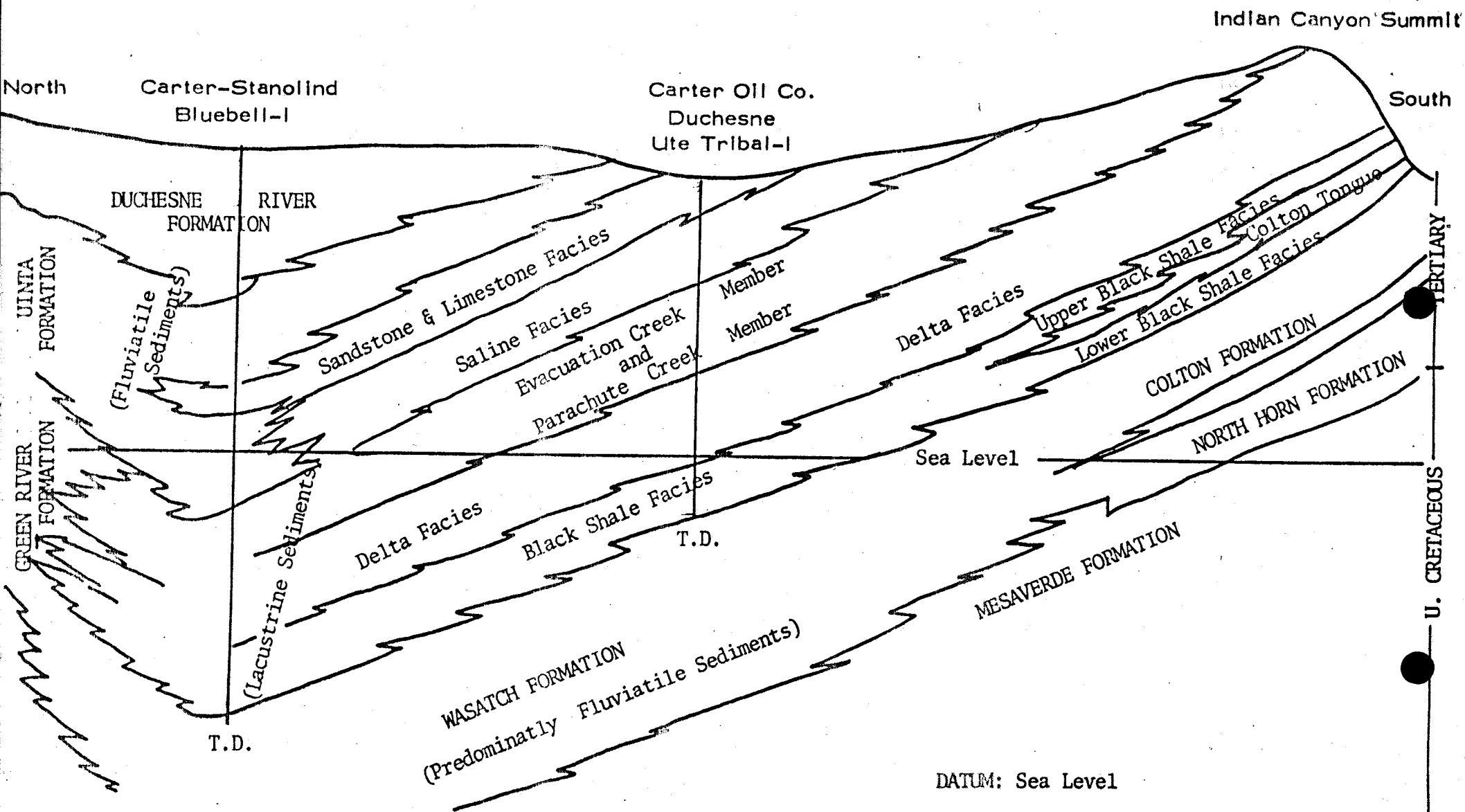
Cement basket is placed  
50' above top aquifer to  
allow cement to rise at least  
300' in annulus

Stage Collar

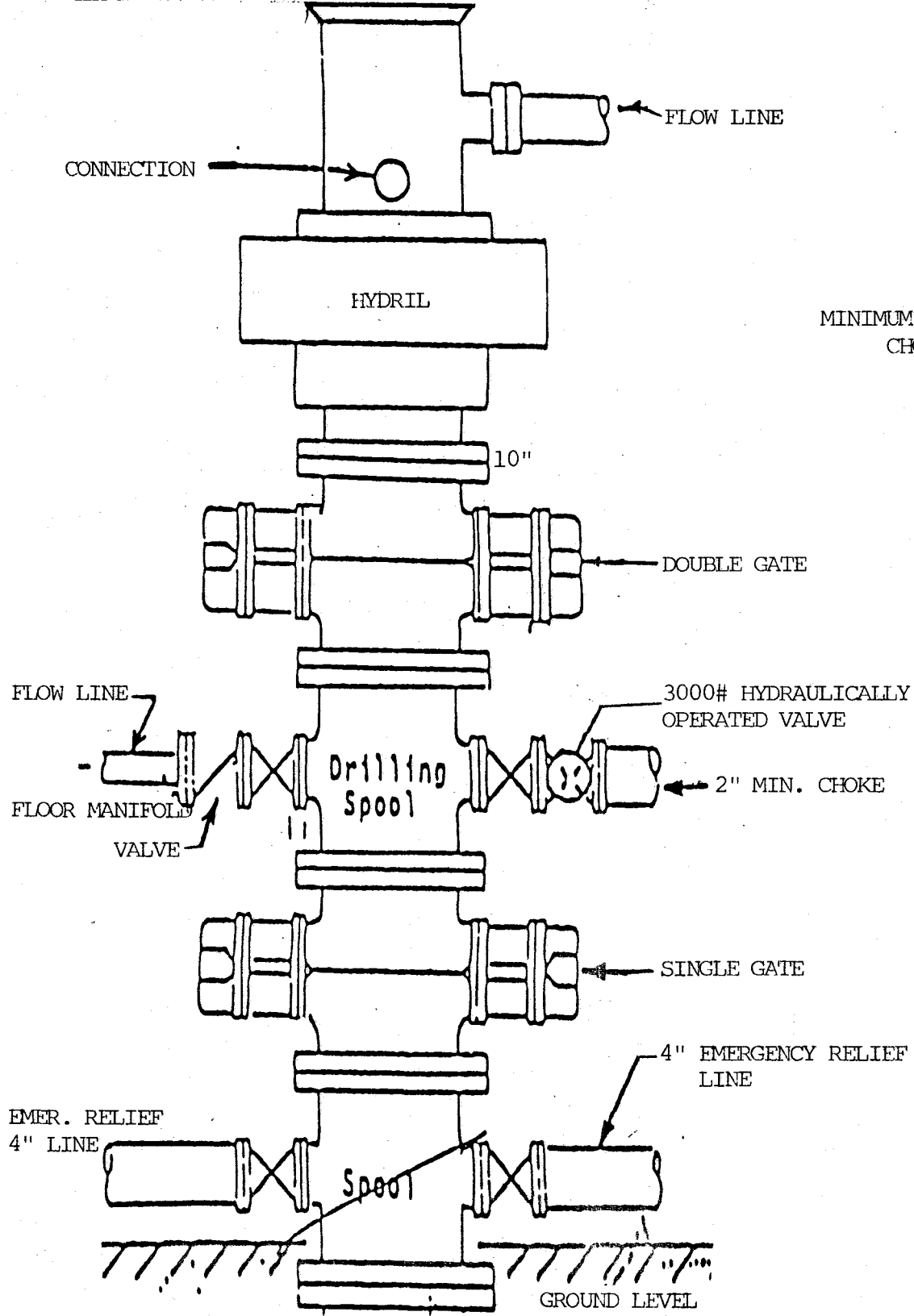
Cement  
Basket

Cement Basket is set at  
consolidated section at the  
base of the Oil Shale Zone.  
This allows the cement to reach  
the top of the Mahogany Zone.

Cement will reach base of  
Lower Aquifer



View east of cross section of Uinta Basin showing stratigraphy and intertongling of Tertiary rocks. Ute Tribal-1 (in cross section) is located about 8 miles southeast of the application area.



MINIMUM BORE 2 9/16" — TO CHOKE BOX & RESERVE PIT

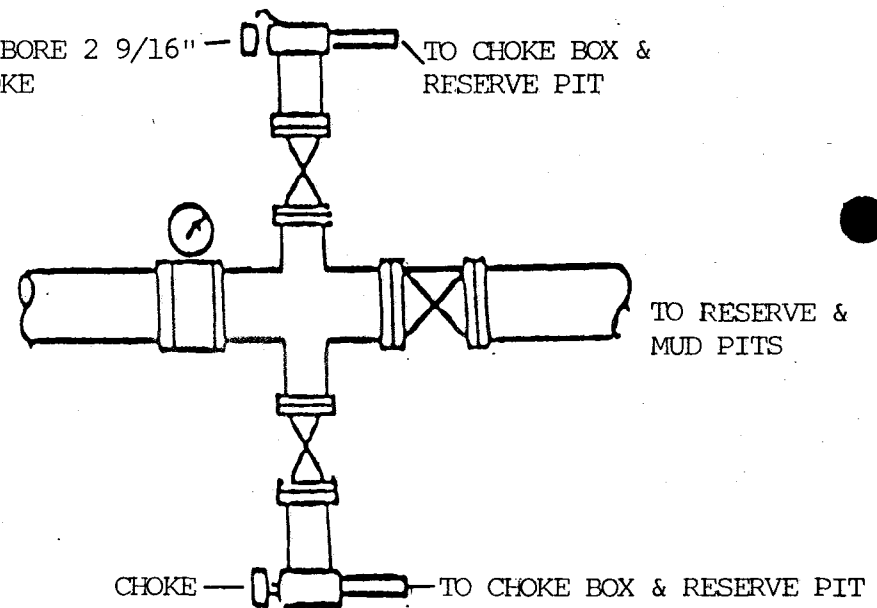


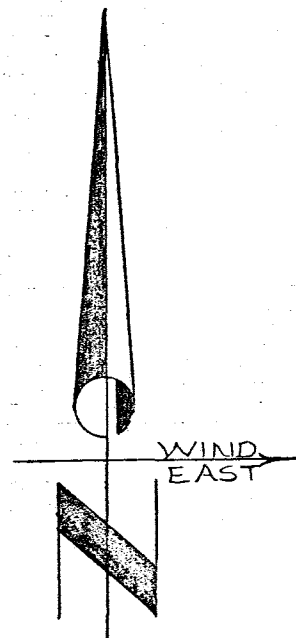
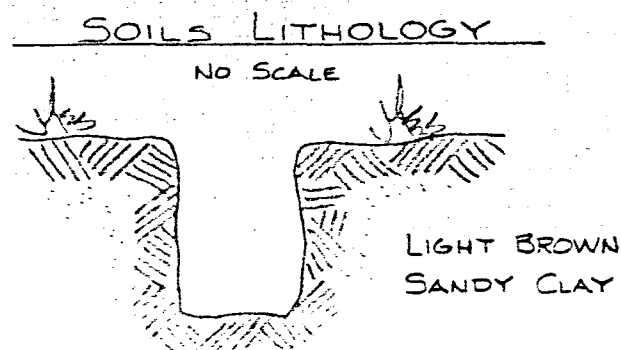
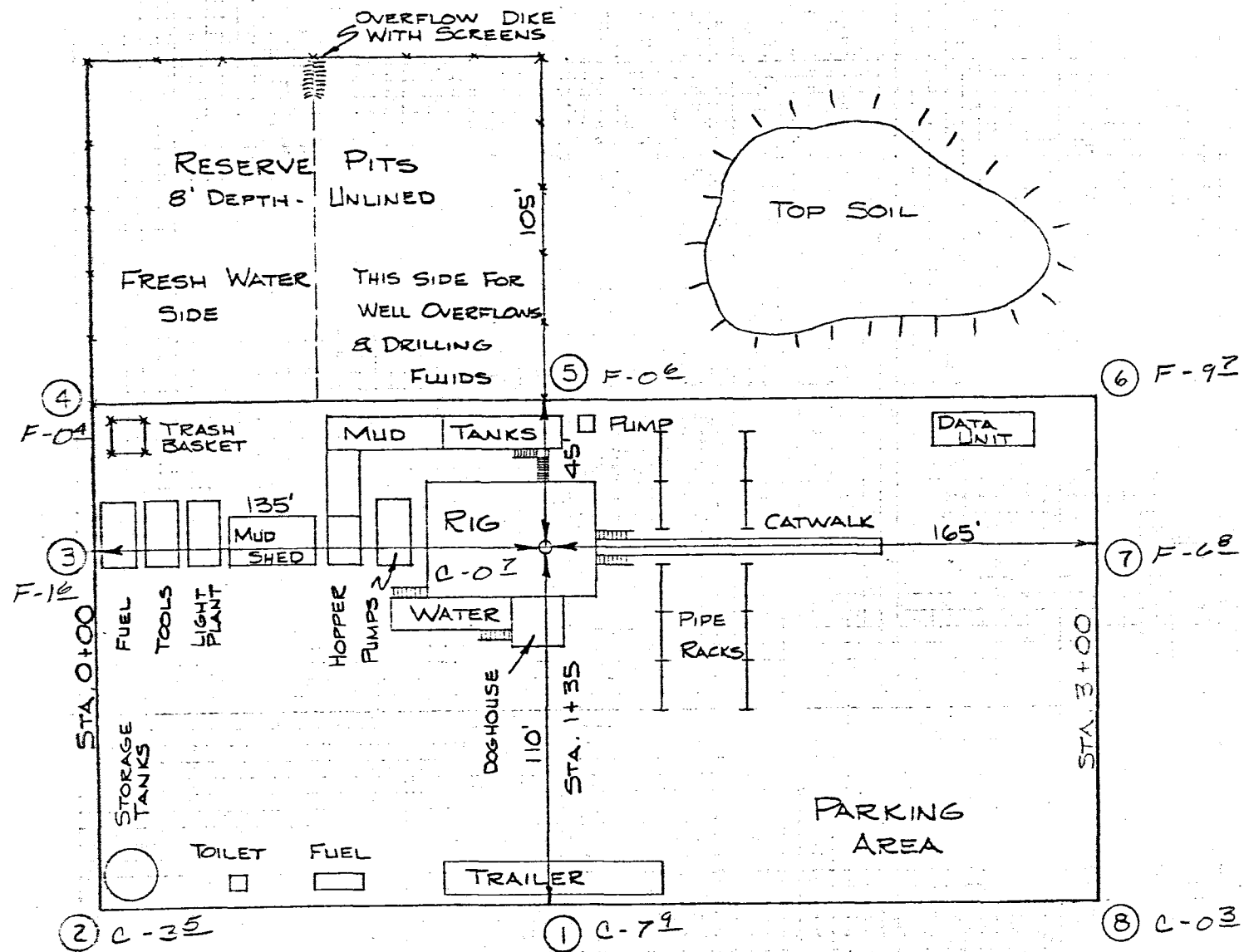
DIAGRAM "C"

HIKO BELL MINING & OIL COMPANY

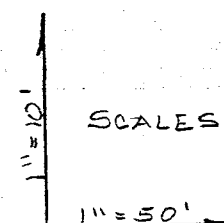
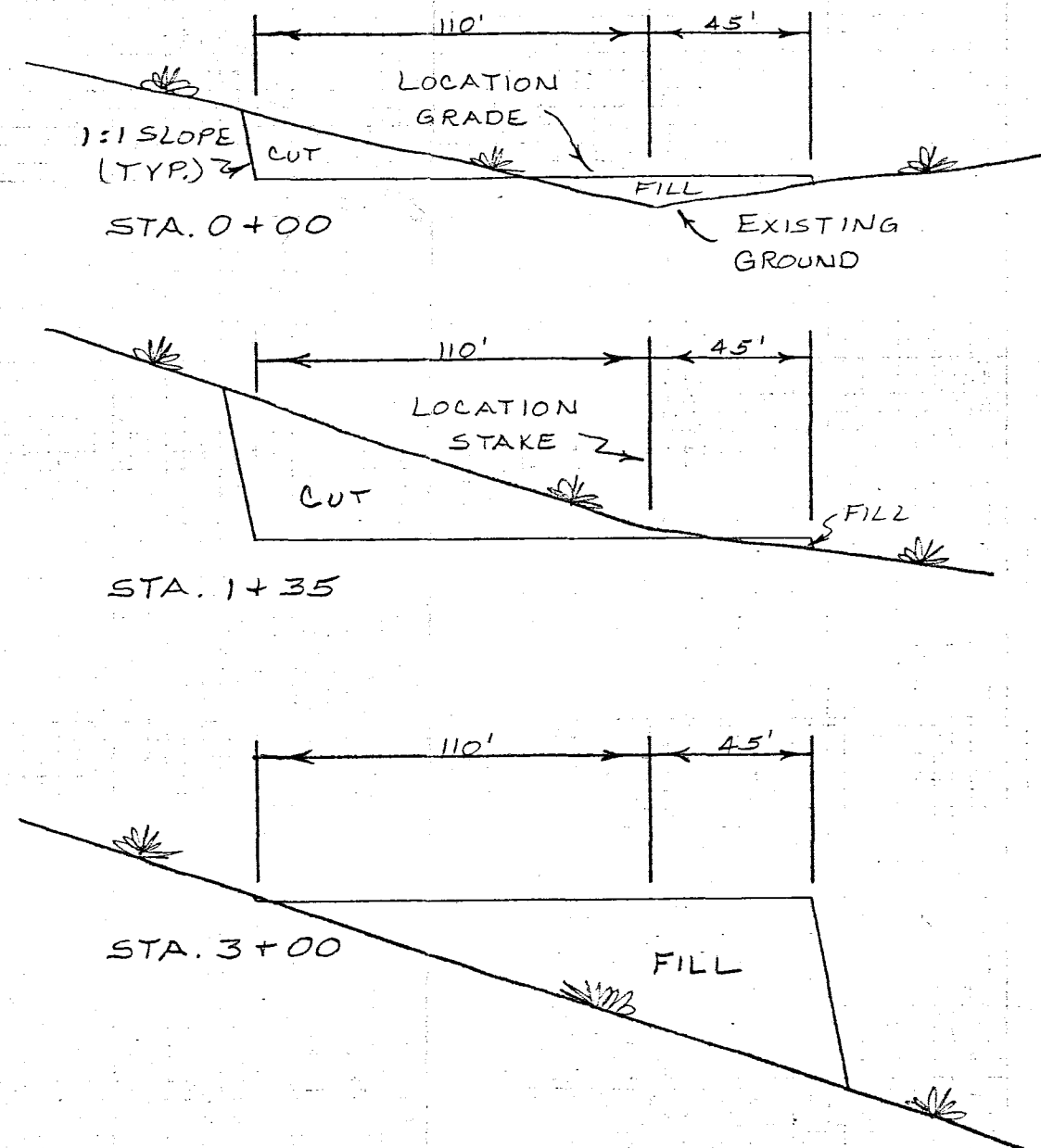
WHITE MULE SPRINGS OIL  
AND GAS PROSPECT

DUCHESNE CO., UTAH

# HIKO BELL MINING AND OIL CO. HIKO BELL # 44-6



## CROSS SECTIONS



**APPROX. YARDAGES**  
CUT - 3,212 CU. YDS.  
FILL - 2,611 CU. YDS.

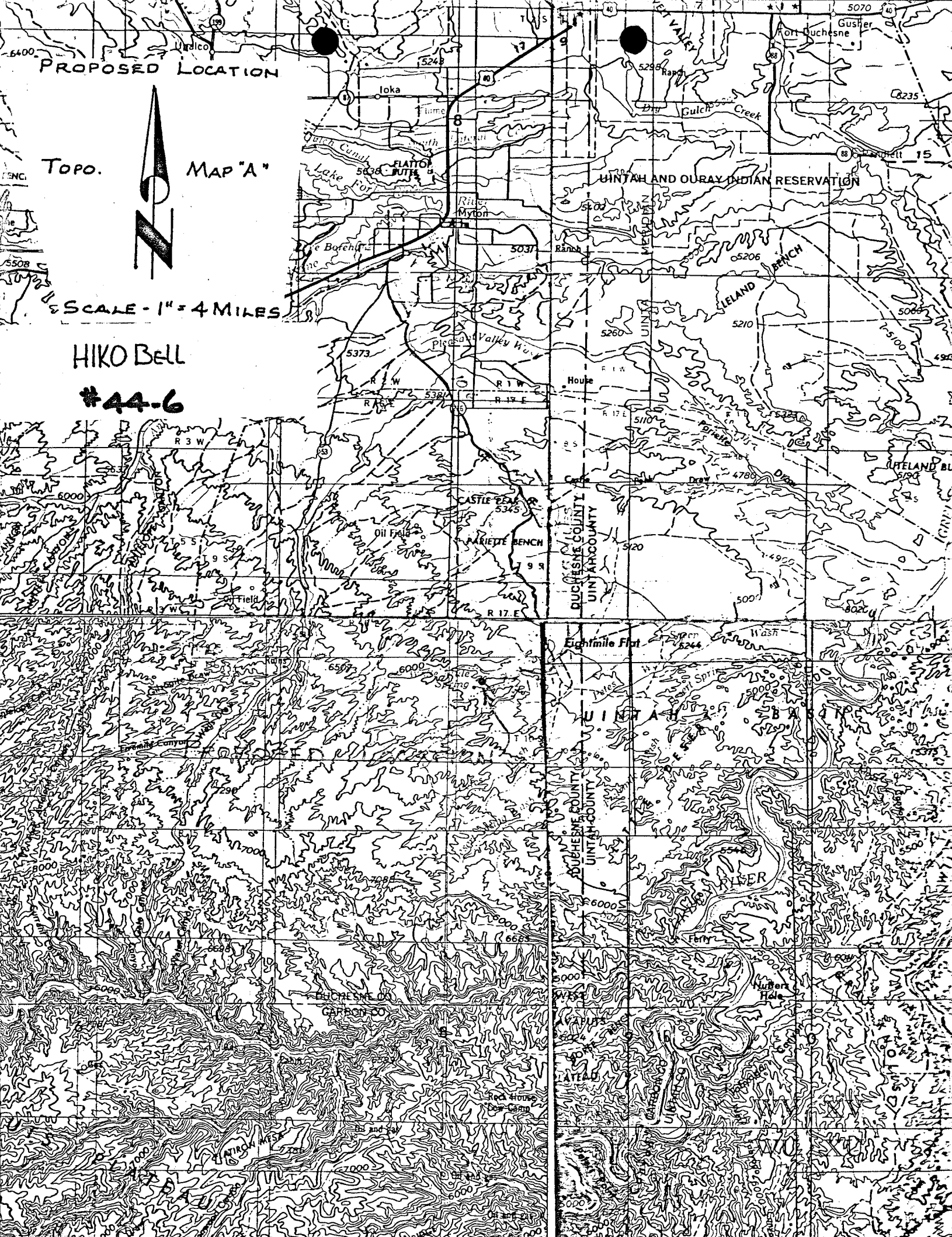
MAP "A"



SCALE - 1" = 4 MILES

HIKO BELL

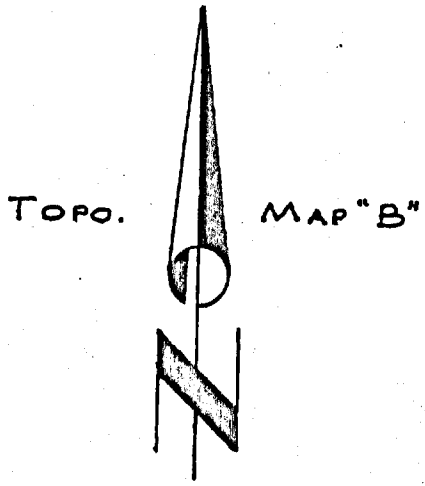
**\*44-6**





HIKO BELL

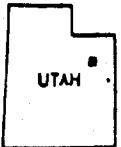
#44-6  
PROPOSED LOCATION



SCALE - 1" = 2000'

ROAD CLASSIFICATION

Light-duty ——— Unimproved dirt .....  
○ State Route



QUADRANGLE LOCATION

PROPOSED LOCATION

HIKO BELL #44-6

PROPOSED ACCESS ROAD

Wash 23.3 MILES

Wash 21.8 MILES

Wash

Wash

CULTURAL RESOURCE INVENTORY OF  
FOUR WELL PADS AND ACCESS ROADS  
NEAR WILKIN RIDGE, DUCHESNE COUNTY, UTAH

Cultural Resources Reports

Number 82-8

Submitted to

Bureau of Land Management  
Vernal District  
Diamond Mountain Resource Area  
170 South 500 East  
P.O. Box F  
Vernal, Utah 84078

by

Alan R. Schroedl  
Principal Investigator  
P-III Associates  
419 Boston Building  
9 Exchange Place  
Salt Lake City, Utah 84111

November 24, 1982

Work Completed Under  
Department of Interior Antiquities Permit Number 82-UT-172



U.S.  
Department of the Interior  
Bureau of Land Management  
• Utah State Office

Summary Report of  
Inspection for Cultural Resources

BLM Report ID No.

1 4 10

Report Acceptable

Yes \_\_\_ No \_\_\_

Mitigation Acceptable Yes \_\_\_ No \_\_\_

Comments:

Report Title FOUR WELL PADS - DUCHESNE CO

Development Company Hiko Bell Mining and Oil Company

Report Date 11/24/1982

4. Antiquities Permit No. 82-UT-172

Responsible Institution PII County Duchesne

Fieldwork Location: TWN 10S Range 17E Section(s) 5 6 7 8

TWN 78 Range 82 Section(s) 86 87 88 89 90 91 92 93

Resource Area DM TWN 94 Range 98 Section(s) 102 103 104 105 106 107 108 109

PO=PONY EXPRESS, BR=BEAR RIVER, PR=PRICE RIVER, WS=WARM SPRINGS  
BC=BOOK CLIFFS, HR=HOUSE RANGE, SE=SEVIER RIVER  
HM=HENRY MOUNTAINS, BE=BEAVER RIVER, DX=DIXIE  
KA=KANAB, ES=ESCALANTE, SJ=SAN JUAN, GR=GRAND  
SR=SAN RAFAEL, DM=DIAMOND MOUNTAIN,

Fill in spaces 65, 69, 81, 85, 97, 101 Only if  
V=Vernal Meridian  
H=Half Township

Description of Examination Procedures: The area of direct impact (roughly 300' by 300') plus a 10 m buffer zone on each side, was inventoried at each drill pad. The survey was conducted on foot, in adjacent sweeps no more than 15 m apart. A 30 m corridor was intensively surveyed for the access routes to the well pads.

9. Linear Miles Surveyed and/or 112 117

Definable Acres Surveyed and/or 118 123

\* Legally Undefinable Acres Surveyed 1 4 2

(\* A parcel hard to cadastrally locate i.e., center of section)

10. Inventory Type I

R=Reconnaissance  
I=Intensive  
S=Statistical Sample

1. Description of Findings (attach appendices, if appropriate)

No sites or cultural materials were observed at any of the drill pad locations or access routes. Title of report (appended): "Cultural Resource Inventory of Four Well Pads and Access Roads Near Wilkin Ridge, Duchesne County, Utah."

12. Number Sites Found: 0  
No sites=0

13. Collection: N Y=Yes, N=No

4. Actual/Potential National Register Properties Affected: None.

15. Literature Search: Bureau of Land Management, Utah State Office, 11/23/82

6. Conclusion/Recommendations:

Cultural resource clearance is recommended for the four well pads and access roads.

7. Signature and Title of Institutional Officer Responsible

H. K. [Signature]  
Senior Consultant

## MANAGEMENT SUMMARY

In November, 1982, P-III Associates conducted a cultural resources inventory of four well pads and access roads near Wilkin Ridge on Bureau of Land Management land, Vernal District, Diamond Mountain Resource Area in Duchesne County, Utah. The project was undertaken on behalf of Hiko Bell Mining and Oil Company, Vernal, Utah.

Two of the well pads are located immediately adjacent to existing roads. The other two well pads are situated within several hundred meters of an existing road. P-III Associates intensively inventoried all four well pads and access routes to the two pads that were not next to the existing roads.

No sites were observed at any of the well pads or within the access routes. Cultural resource clearance is recommended for all of the areas inventoried by P-III Associates.

## INTRODUCTION

On November 23, 1982, P-III Associates of Salt Lake City, Utah, completed a cultural resource inventory of four oil well pads and associated access roads on Bureau of Management land in the Vernal District, Diamond Mountain Resource Area, in north-eastern Utah. The work was performed by Alan R. Schroedl, Principal Investigator, and Tim Pratt, staff archaeologist, at the request of Hiko Bell Mining and Oil Company. Ken Young of Hiko Bell accompanied the field crew during the inventory.

The project was undertaken to comply with federal historic preservation laws and Executive Order 11593 which requires inventory and evaluation of cultural resources on federal lands. The work was conducted under the provisions of P-III Associates' Department of Interior Antiquities Permit No. 82-UT-172 which expires on April 8, 1983.

## LOCATION

The four well pads are located within a four square mile area in the southern part of Duchesne County, south of Myton, Utah. Three of the pads are situated on an unnamed ridge a half mile south of White Mule Springs and Big Wash. The other well pad is located on Wilkin Ridge. Access to these well pads is by an unimproved dirt road that can be reached from the Sand Wash access road. One drill pad is located in each of sections 5, 6, 7, and 8 of T10S, R17E (Figure 1).

## METHODS

A 300 ft by 300 ft drilling area had been previously staked and flagged by Uintah Engineering at each of the well pads. This area plus a 10 m buffer zone on all four sides of the pad was intensively inventoried for each well location. The area was surveyed on foot in adjacent sweeps with no more than 15 m between surveyors. The access routes to Wells 23-8 and 44-6 had been previously staked or marked. A 30 m wide corridor was intensively inventoried in 10-15 m sweeps for each access road. The access routes for Wells 23-8 and 44-6 were 25 m and 90 m long respectively.

A search of existing records was performed at the State Office of the Bureau of Land Management to determine if there were any previously recorded cultural resources in the project area or if the project area had been previously inventoried. While considerable work has been conducted in the surrounding area, no cultural resource work has been conducted in the immediate project area. One major project has been completed in the vicinity of the well pads, a survey of the Pariette Bench by the University of Utah for the Central Utah Project in 1977 (Sisson 1977, Sisson 1978). In a survey of 2,964 acres on the Pariette Bench and Eight-Mile Flat area Sisson (1977) recorded only two sites, one historic and one prehistoric. Thus, the site density in this area of Duchesne County is apparently very low.

In 1981 AERC recorded 42DC353, the Lima Bean site, several miles to the north of the study area. A fragment of a Folsom point was recovered from this site in an area of desert pavement. This may indicate that other Paleo-Indian components could be discovered in the area.

Vernal District Archaeologist Blaine Phillips was notified both before and after completion of the survey.

#### DRILL PAD DESCRIPTION AND SURVEY RESULTS

No cultural resources, historic or prehistoric, were observed during the inventory of the four drill pads and associated access roads.

##### Well Pad 23-8

**Legal Description:**

SE 1/4, NE 1/4, SW 1/4, Sec. 8, T10S. R17E  
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5910 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: 120 m by 120 m square with drill hole located at the center. Approximately 25 m of a 30 m wide access road was also inventoried.

Description: The well pad is in a shallow swale on Wilkin Ridge. Vegetation is typical of the mixed desert shrub community and is dominated by the Atriplex-Tetradymia association. Vegetation noted on this and the other well pads includes Indian rice grass (Oryzopsis hymenoides), Prickly pear (Opuntia sp.), shadscale (Atriplex confertifolia), and sagebrush (Artemisia sp.). Less than 20% of the surveyed area was covered with snow.

Results: No archaeological or historical sites were observed at this location.

Recommendation: Clearance is recommended.

##### Well Pad 21-7

**Legal Description:**

NE 1/4, NE 1/4, NW 1/4, Sec. 7, T10S. R17E  
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5950 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: 120 m by 120 m square with the drill hole located at the center.

Description: The drill pad is located on an unnamed ridge about a half mile south of White Mule Springs. Vegetation is typical of a mixed desert shrub zone and is dominated by grasses, salt-bush and sage. Less than 20% of the area surveyed was covered with snow.

Results: No cultural resources were observed.

Recommendation: Clearance is recommended.

#### Well Pad 44-6

Legal Description:

SE 1/4, SE 1/4, SE 1/4, Sec. 6, T10S, R17E  
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5885 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: A 120 m by 120 m area was inventoried with the drill hole at the center. Approximately 90 m of a 30 m wide access road was also inventoried.

Description: The well pad is northeast of a small rise on a ridge that overlooks a tertiary drainage of Big Wash, which is half a mile to the north of the drill pad. Vegetation is sparse, and is typical of a mixed desert shrub zone. It is similar to vegetation at the other three drill pad locations. Less than 25% of the total survey area was covered with snow.

Results: No cultural resources were observed.

Recommendations: Clearance is recommended.

#### Well Pad 14-5

Legal Description:

NW 1/4, SW 1/4, SW 1/4, Sec. 5, T10S, R17E  
Salt Lake Principal Meridian, Duchesne County, Utah

Elevation: 5860 feet

Map Reference: U.S.G.S. 7.5' Wilkin Ridge, Utah, 1965

Area Surveyed: A 120 m by 120 m area was surveyed with the drill hole at the center.

Description: The well pad is located on the south side of the ridge on which drill pad 21-7 and 44-6 are located. This location overlooks a small draw to the south. The existing road runs

through a portion of the surveyed area. Vegetation is typical of the Atriplex-Tetradymia association, with an abundance of small grasses in this drill pad location. Less than 20% of the survey area was covered by snow.

Results: No cultural resources were observed.

Recommendations: Clearance is recommended.

#### RECOMMENDATIONS

Cultural resource clearance is recommended for four well pad locations and access roads to Hiko Bell Mining and Oil Company locations 23-8, 21-7, 44-6, and 14-5.

#### REFERENCES CITED

Sisson, E. B.

1977 A reconnaissance survey of Pariette Bench and Eight-Mile Flat, Uintah and Duchesne Counties, Utah. Unpublished report on file, Archeological Laboratory, University of Utah, Salt Lake City.

1978 Final report: Survey and evaluation of archeological and historical resources: Central Utah Project, 1977. Special report, University of Utah, Salt Lake City.

# WILKIN RIDGE, UTAH

N3952.5—W11000/7.5

1965

AMS 3963 I NE—SERIES VR97

Wash

White Mule Spring

Well # 44-6

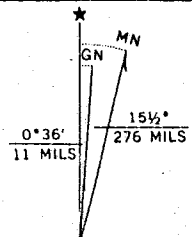
Well # 14-5

Well # 21-7

Well # 23-8

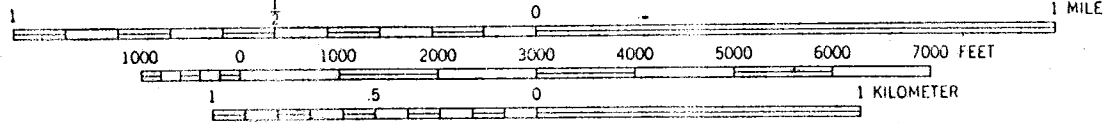
Drill Hole

Figure 1. Location of well pads and survey areas.



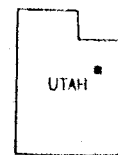
UTM GRID AND 1965 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24 000



CONTOUR INTERVAL 20 FEET  
DATUM IS MEAN SEA LEVEL

Wash



QUADRANGLE LOCATION

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE:

SERIAL No.: U-50972

and hereby designates

NAME: AFE Management Inc. 2932 Edge Rock Circle ✓  
ADDRESS: 208-372 Bay St., Toronto, Ontario Salt Lake City, Utah 84117

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

Township 10 South - Range 17 East, SLM, Duchesne Co., Utah:

Section 5: Lot 4, SW $\frac{1}{4}$  NW $\frac{1}{4}$ , SW $\frac{1}{4}$   
Section 6: All  
Section 7: All  
Section 8: NW $\frac{1}{4}$  NE $\frac{1}{4}$ , NE $\frac{1}{4}$  NW $\frac{1}{4}$ , W $\frac{1}{2}$  W $\frac{1}{2}$   
Containing 1,746.10 acres.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

ATTEST:

Robert E. Covington  
Robert E. Covington, Sec.-Treas.

(Date)

Sept. 13, 1983

HIKO BELL MINING & OIL COMPANY

By: Craig Caldwell

(Signature of lessee)

Craig Caldwell, President

P.O. Drawer AB, Vernal, Utah, 84078

(Address)



*AFF mgmt inc*

OPERATOR

*Hiko Bell Mining & Oil*

DATE

*12-3-82*

WELL NAME

*Hiko Bell #44-6*

SEC

*SESE 6*

T

*105*

R

*17E*

COUNTY

*Durham*

*43-013-30716*

API NUMBER

*fed.*

TYPE OF LEASE

POSTING CHECK OFF:

☐

INDEX

☒

HL

☒☐

NID

☒

PI

☐☐

MAP

☒☐

PROCESSING COMMENTS:

*PART OF TRACT 18 WHICH IS NOT COMMITTED TO WILKIN RIDGE UNIT*

*NO WELLS WITHIN 1000'*

*RJF. ✓*

APPROVAL LETTER:

SPACING:

☐

A-3

UNIT

☐

c-3-a

CAUSE NO. & DATE

☒

c-3-b

☐

c-3-c

SPECIAL LANGUAGE:

☒ RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

☒ AUTHENTICATE LEASE AND OPERATOR INFORMATION

☒ VERIFY ADEQUATE AND PROPER BONDING *FED*

☒ AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

☒ APPLY SPACING CONSIDERATION

☐ ORDER 110

☐ UNIT 110

☒ c-3-b

☐ c-3-c

☒ OUTSTANDING OR OVERDUE REPORTS FOR OTHER WELLS OF THE OPERATOR.

☒ IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

December 6, 1982

Hiko Bell Mining & Oil Company  
P. O. Drawer AB  
Vernal, Utah 84078

RE: Well No. Hiko Bell #44-6  
SESE Sec. 6, T.10S, R.17E  
Duchesne County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

RONALD J. FIRTH - Engineer  
Office: 533-5771  
Home: 571-6068

OR

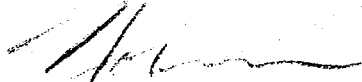
CLEON B. FEIGHT - Director  
Office: 533-5771  
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

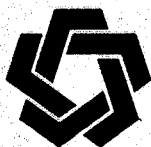
The API number assigned to this well is 43-013-30716.

Sincerely,



Norman C. Stout  
Administrative Assistant

NCS/as  
cc: MMS  
Enclosure



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dr. G. A. (Jim) Shirazi, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

October 24, 1983

Hiko Bell Mining & Oil Company  
P. O. Drawer AB  
Vernal, Utah 84078

Re: Well No. Hiko Bell # 44-6  
660' FSL, 660' FEL  
SE SE, Sec. 6, T. 10S, R. 17E.  
Duchesne County, Utah

Well No. Hiko Bell # 21-7  
724' FNL, 1935' FWL  
NE NW, Sec. 7, T. 10S, R. 17E.  
Duchesne County, Utah

Well No. Hiko Bell # 23-8  
1761' FSL, 2055' FWL  
NE SW, Sec. 8, T. 10S, R. 17E.  
Duchesne County, Utah

Gentlemen:

In reference to the above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not received any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill these locations at a later date, please notify as such.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Well Records Specialist

CF/cf

AFE MANAGEMENT INC.

372 BAY STREET, SUITE 208  
TORONTO, ONTARIO M5H 2W9

November 3, 1983

State of Utah Natural Resources  
Oil, Gas and Mining  
4241 State Office Building  
Salt Lake City, Utah  
USA 84114

ATTENTION: Cari Furse

Gentlemen:

*Contacted  
Benna BLM  
Umsal 5/23/84*

RE: Well No. Hiko Bell #44-6, 660' FSL, 660' FEL  
SE SE, Sec. 6, T. 10S, R. 17E., Duchesne County, Utah

Well No. Hiko Bell #21-7, 724' FNL, 1935' FWL  
NE NW, Sec. 7., T. 10S, R. 17E., Duchesne County, Utah

Well No. Hiko Bell #23-8, 1761' FSL, 2055' FWL  
NE SW, Sec. 8, T. 10S, R. 17E., Duchesne County, Utah

Your letter of October 24th to Hiko Bell Mining and Oil Company regarding the above wells has been forwarded to us for reply.

AFE Management Inc. is now the Operator of the above captioned wells. A copy of the Designation of Operator is enclosed for your records. We are also the Assignee of Oil and Gas Lease Serial No. U50972 on which the subject wells are located.

Please be advised that it is our intention to proceed with the drilling of the wells. We would like to change the name of the above wells to AFE 44-6, 21-7 and 23-8 and would ask your assistance in advising us on how we might go about instrumenting this change.

Thank you for your assistance, we look forward to hearing from you soon.

Yours truly,

AFE MANAGEMENT INC.

*Edward W. Wenger*  
Edward W. Wenger  
President

EWW:acp  
Enclosure

c.c. Hiko Bell

3100  
U-810

April 11, 1984

Hiko Bell Mining & Oil Company  
P.O. Drawer AB  
Vernal, UT 84078

Re: Rescind Application for Permit to Drill  
Well No. White Mule Springs #44-6  
Section 6, T10S, R17E  
Duchesne County, Utah  
Lease U-50972

Gentlemen:

The Application for Permit to Drill the referenced well was approved on January 3, 1983. Since that date, no known activity has transpired at the approved location. Under current District policy, applications for permit to drill are effective for a period of one year. In view of the foregoing, this office is rescinding the approval of the referenced application without prejudice. If you intend to drill at this location at a future date, a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

Lloyd H Ferguson  
District Manager

cc: Well File  
State, O & G  
SHA

*JKenezkama*



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

January 25, 1985

Bureau of Land Management  
Vernal District Office  
170 South 500 East  
Vernal, Utah 84078

Gentlemen:

Re: Well No. AFE 44-6 - Sec. 8, T. 10S., R. 17E.  
Duchesne County, Utah - API #43-013-30716  
Operator of Record - AFE Management Limited

The above referred to well in your district was given Federal approval to drill January 7, 1983. This office has not received notification of any activity on this location.

Please let me know what action, if any, the Bureau of Land Management is taking on this well.

Thank you for your help in keeping our records up to date.

Sincerely,

Claudia L. Jones  
Well Records Specialist

cc: Dianne R. Nielson  
Ronald J. Firth  
John R. Baza  
File  
0009S/11



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 11, 1985

AFE Management Ltd.  
372 Bay Street, Suite 208  
Toronto, Ontario, Canada M5H 2W9

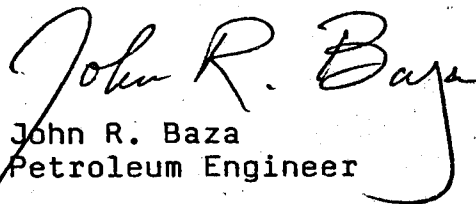
Gentlemen:

Re: Well No. AFE 44-6 - Sec. 6, T. 10S., R. 17E  
Duchesne County, Utah - API #43-013-30716

In concert with action taken by the Bureau of Land Management, April 11, 1984, approval to drill the above-indicated well is hereby rescinded.

A new "Application for Permit to Drill" must be filed with this office, for approval, prior to future drilling of the subject location.

Sincerely,

  
John R. Baza  
Petroleum Engineer

clj

cc: Dianne R. Nielson  
Ronald J. Firth  
File

00087S/43